

Appl. No. 10/064,045  
Amdt. dated November 16, 2005  
Reply to Office action of August 25, 2005

**Amendments to the Claims:**

This listing of claims replaces all prior versions and listings of claims in the application:

**Listing of Claims:**

- 1 (currently amended): A method for updating a ciphering key used in a network system,
- 5       the network system comprising:
- a server for storing registration data;
- an access point connected to the server for transmitting data received from the server
- via wireless transmission and receiving data transmitted via wireless transmission;
- and
- 10       a station for transmitting data to the access point via wireless transmission and
- receiving data transmitted from the access point via wireless transmission, the
- station storing a first ciphering key;
- the method comprising:
- the access point transmitting a first challenge text to the station via wireless
- 15       transmission;
- the station using the first ciphering key stored in the station to encrypt the first
- challenge text into a first response text;
- the station transmitting the encrypted first response text back to the access point via
- wireless transmission;
- 20       the access point comparing the first response text with a first predetermined text;
- the station transmitting identification data to the access point when the first response
- text matches the first predetermined text;
- the access point transmitting the identification data of the station to the server; and
- the access point transmitting a second ciphering key to the station for replacing the
- 25       first ciphering key when the identification data matches the registration data,
- wherein the second ciphering key is encrypted by the first ciphering key before
- being transmitted to the station.

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2 (cancelled).

3 (original): The method of claim 1 wherein the station uses the second ciphering key to  
encrypt the data transmitted to the access point and to decrypt the data received from  
5 the access point after the first ciphering key is replaced by the second ciphering key.

4 (original): The method of claim 1 wherein the station uses the second ciphering key to  
encrypt the data transmitted to the station after the access point transmits the second  
ciphering key to the station.  
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5 (original): The method of claim 1 wherein the first predetermined text is generated from  
encrypting the challenge text by the first ciphering key.

6 (original): The method of claim 1 further comprising requesting a response from a user  
15 of the station before replacing the first ciphering key by the second ciphering key.

7 (original): The method of claim 1 wherein the network comprises a plurality of stations,  
and each station comprises the first ciphering key.

20 8 (original): The method of claim 1 wherein further comprising:  
the access point transmitting a second challenge text to the station via wireless  
transmission after the second ciphering key is transmitted to the station;  
using the second ciphering key stored in the station to encrypt the second challenge  
text into a second response text;  
25 transmitting the second response text back to the access point via wireless  
transmission; and  
the access point comparing the second response text with a second predetermined  
text.